

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:	)	
	)	
Chang-Seok GEUM	)	
	)	
Application No.: Unassigned	)	Group Art Unit: Unassigned
	)	
Filed: September 12, 2003	)	Examiner: Unassigned
	)	
For: DISPENSER FOR FABRICATING	)	
LIQUID CRYSTAL DISPLAY PANEL	)	
AND METHOD FOR CONTROLLING	)	
GAP BETWEEN NOZZLE AND SUB-	)	
STRATE BY USING THE SAME	)	

Commissioner for Patents  
Arlington, Virginia 22202

Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached PTO Form 1449. To the best of the undersigned's knowledge, this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application. Accordingly, Applicant does not believe that a fee is due for filing this paper.

Copies of the listed documents are attached.

The relevance of the non-English language documents can be understood from the drawings respectively therein and from the respectively attached abstracts.

Applicant requests that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached PTO Form 1449.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each of the listed documents are material or constitute "Prior Art." If it should be determined that the listed documents do not constitute "Prior Art" under United States law, Applicant reserves the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should the documents be applied against the claims of the present application.

**EXCEPT** for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§ 1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account 50-0310. This paragraph is intended to be a CONSTRUCTIVE PETITION FOR EXTENSION OF TIME in accordance with 37 C.F.R. § 1.136(a)(3).

Respectfully submitted,

**MORGAN, LEWIS & BOCKIUS LLP**

By: Mary Jane Borell  
Reg. No. 33,652  
 Robert J. Goodell  
 Reg. No. 41,040

Dated: September 12, 2003

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<b>INFORMATION DISCLOSURE CITATION</b>  (Use several sheets if necessary)  <b>PTO Form 1449</b>	Attorney Docket No. 041993-5220	Application No.: Unassigned
	Applicant: Chang-Seok GEUM <span style="float: right;">Sheet 1 of 10</span>	
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<b>U.S. PATENT DOCUMENTS</b>
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*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	3,978,580	09/07/1976	Leupp, et al.			09/27/1974
	4,094,058	06/13/1978	Yasutake, et al.			07/23/1976
	4,653,864	03/31/1987	Baron, et al.			02/26/1986
	4,691,995	09/08/1987	Yamazaki, et al.			07/15/1986
	4,775,225	10/04/1988	Tsuboyama, et al.			05/14/1986
	5,247,377	09/21/1993	Omeis, et al.			07/24/1989
	5,263,888	11/23/1993	Ishihara, et al.			02/11/1993
	5,379,139	01/03/1995	Sato, et al.			07/06/1992
	5,406,989	04/18/1995	Abe			10/12/1993
	5,499,128	03/12/1996	Hasegawa, et al.			03/15/1994
	5,507,323	04/16/1996	Abe			11/22/1994
	5,511,591	04/30/1996	Abe			04/10/1995
	5,539,545	07/23/1996	Shimizu, et al.			05/17/1994
	5,548,429	08/20/1996	Tsujita			06/14/1994
	5,642,214	06/24/1997	Ishii, et al.			07/05/1994
	5,680,189	10/21/1997	Shimizu, et al.			06/07/1995
	5,742,370	04/21/1998	Kim, et al.			02/26/1997

Examiner	Date Considered
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<b>U.S. PATENT DOCUMENTS</b>
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*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	5,757,451	05/26/1998	Miyazaki, et al.			09/09/1996
	5,852,484	12/22/1998	Inoue, et al.			05/27/1997
	5,854,664	12/29/1998	Inoue, et al.			09/25/1995
	5,861,932	01/19/1999	Inata, et al.			03/30/1998
	5,875,922	03/02/1999	Chastine, et al.			10/10/1997
	5,952,676	09/14/1999	Sato, et al.			06/06/1997
	5,956,112	09/21/1999	Fujimori, et al.			10/01/1996
	6,001,203	12/14/1999	Yamada, et al.			12/10/1997
	6,011,609	01/04/2000	Kato, et al.			10/02/1997
	6,016,178	01/18/2000	Kataoka, et al.			03/14/1997
	6,016,181	01/18/2000	Shimada			01/21/1997
	6,055,035	04/25/2000	von Gutfeld, et al.			05/11/1998
	6,163,357	12/19/2000	Nakamura			09/26/1997
	6,219,126	04/17/2001	Von Gutfeld			11/20/1998
	6,226,067	05/01/2001	Nishiguchi, et al.			09/30/1998
	6,236,445	05/22/2001	Foschaar, et al.			02/22/1996
	6,304,306	10/16/2001	Shiomi, et al.			04/20/1998
Examiner			Date Considered			
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<b>U.S. PATENT DOCUMENTS</b>
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*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	6,304,311	10/16/2001	Egami, et al.			11/11/1999
	6,337,730	01/08/2002	Ozaki, et al.			06/01/1999
	6,414,733	07/02/2002	Ishikawa, et al.			02/07/2000
	2001/0021000	09/13/2001	Egami			02/01/2001

<b>FOREIGN PATENT DOCUMENTS</b>								
	Document Number	Date	Country	Class	Sub Class	<b>Translation</b> <b>YES      NO</b>		
	51-65656 ✓	06/07/1976	Japan			Abstract		
	57-38414 ✓	03/03/1982	Japan			Abstract		
	57-88428 ✓	06/02/1982	Japan			Abstract		
	58-27126 ✓	02/17/1983	Japan			Abstract		
	59-57221 ✓	04/02/1984	Japan			Abstract		
	59-195222 ✓	11/06/1984	Japan			Abstract		
	60-111221 ✓	06/17/1985	Japan			Abstract		
	60-164723 ✓	08/27/1985	Japan			Abstract		
	60-217343 ✓	10/30/1985	Japan			Abstract		
	61-7822 ✓	01/14/1986	Japan			Abstract		

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<b>FOREIGN PATENT DOCUMENTS</b>
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		Document Number	Date	Country	Class	Sub Class	<div>Translation</div> <div>YES      NO</div>	
		61-55625 ✓	03/20/1986	Japan			Abstract	
		62-89025 ✓	04/23/1987	Japan			Abstract	
		62-90622 ✓	04/25/1987	Japan			Abstract	
		62-205319 ✓	09/09/1987	Japan			Abstract	
		63-109413 ✓	05/14/1988	Japan			Abstract	
		63-110425 ✓	05/14/1988	Japan			Abstract	
		63-128315 ✓	05/31/1988	Japan			Abstract	
		63-311233 ✓	12/20/1988	Japan			Abstract	
		5-127179 ✓	05/25/1993	Japan			Abstract	
		5-154923 ✓	06/22/1993	Japan			Abstract	
		5-265011 ✓	10/15/1993	Japan			Abstract	
		5-281557 ✓	10/29/1993	Japan			Abstract	
		5-281562 ✓	10/29/1993	Japan			Abstract	
		6-148657 ✓	05/27/1994	Japan			Abstract	
		6-160871 ✓	06/07/1994	Japan			Abstract	
		6-235925 ✓	08/23/1994	Japan			Abstract	
		6-265915 ✓	09/22/1994	Japan			Abstract	
		6-313870 ✓	11/08/1994	Japan			Abstract	

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FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Sub Class	<u>Translation</u> YES      NO	
		6-51256 ✓	02/25/1994	Japan			Abstract	
		7-84268 ✓	03/31/1995	Japan			Abstract	
		7-128674 ✓	05/19/1995	Japan			Abstract	
		7-181507 ✓	07/21/1995	Japan			Abstract	
		8-95066 ✓	04/12/1996	Japan			Abstract	
		8-101395 ✓	04/16/1996	Japan			Abstract	
		8-106101 ✓	04/23/1996	Japan			Abstract	
		8-171094 ✓	07/02/1996	Japan			Abstract	
		8-190099 ✓	07/23/1996	Japan			Abstract	
		8-240807 ✓	09/17/1996	Japan			Abstract	
		9-5762 ✓	01/10/1997	Japan			Abstract	
		9-26578 ✓	01/28/1997	Japan			Abstract	
		9-61829 ✓	03/07/1997	Japan			Abstract	
		9-73075 ✓	03/18/1997	Japan			Abstract	
		9-73096 ✓	03/18/1997	Japan			Abstract	
		9-127528 ✓	05/16/1997	Japan			Abstract	
Examiner				Date Considered				
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<b>FOREIGN PATENT DOCUMENTS</b>
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		Document Number	Date	Country	Class	Sub Class	<div>Translation</div> <div>YES      NO</div>	
		9-230357 ✓	09/05/1997	Japan			Abstract	
		9-281511 ✓	10/31/1997	Japan			Abstract	
		9-311340 ✓	12/02/1997	Japan			Abstract	
		10-123537 ✓	05/15/1998	Japan			Abstract	
		10-123538 ✓	05/15/1998	Japan			Abstract	
		10-142616 ✓	05/29/1998	Japan			Abstract	
		10-177178 ✓	06/30/1998	Japan			Abstract	
		10-221700 ✓	08/21/1998	Japan			Abstract	
		10-282512 ✓	10/23/1998	Japan			Abstract	
		10-333157 ✓	12/18/1998	Japan			Abstract	
		10-333159 ✓	12/18/1998	Japan			Abstract	
		11-14953 ✓	01/22/1999	Japan			Abstract	
		11-38424 ✓	02/12/1999	Japan			Abstract	
		11-64811 ✓	03/05/1999	Japan			Abstract	
		11-109388 ✓	04/23/1999	Japan			Abstract	
		11-133438 ✓	05/21/1999	Japan			Abstract	
		11-142864 ✓	05/28/1999	Japan			Abstract	

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FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Sub Class	<u>Translation</u> YES      NO	
		11-174477 ✓	07/02/1999	Japan			Abstract	
		11-212045 ✓	08/06/1999	Japan			Abstract	
		11-248930 ✓	09/17/1999	Japan			Abstract	
		11-326922 ✓	11/26/1999	Japan			Abstract	
		11-344714 ✓	12/14/1999	Japan			Abstract	
		2000-2879 ✓	01/07/2000	Japan			Abstract	
		2000-56311 ✓	02/25/2000	Japan			Abstract	
		2000-66165 ✓	03/03/2000	Japan			Abstract	
		2000-137235 ✓	05/16/2000	Japan			Abstract	
		2000-147528 ✓	05/26/2000	Japan			Abstract	
		2000-193988 ✓	07/14/2000	Japan			Abstract	
		2000-241824 ✓	09/08/2000	Japan			Abstract	
		2000-284295 ✓	10/13/2000	Japan			Abstract	
		2000-29035 ✓	01/28/2000	Japan			Abstract	
		2000-292799 ✓	10/20/2000	Japan			Abstract	
		2000-310759 ✓	11/07/2000	Japan			Abstract	
		2000-310784 ✓	11/07/2000	Japan			Abstract	
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<b>FOREIGN PATENT DOCUMENTS</b>
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		Document Number	Date	Country	Class	Sub Class	<div>Translation</div> <div>YES      NO</div>	
		2000-338501 ✓	12/08/2000	Japan			Abstract	
		2001-5401 ✓	01/12/2001	Japan			Abstract	
		2001-5405 ✓	01/12/2001	Japan			Abstract	
		2001-13506 ✓	01/19/2001	Japan			Abstract	
		2001-33793 ✓	02/09/2001	Japan			Abstract	
		2001-42341 ✓	02/16/2001	Japan			Abstract	
		2001-51284 ✓	02/23/2001	Japan			Abstract	
		2001-66615 ✓	03/16/2001	Japan			Abstract	
		2001-91727 ✓	04/06/2001	Japan			Abstract	
		2001-117105 ✓	04/27/2001	Japan			Abstract	
		2001-117109 ✓	04/27/2001	Japan			Abstract	
		2001-133745 ✓	05/18/2001	Japan			Abstract	
		2001-133794 ✓	05/18/2001	Japan			Abstract	
		2001-133799 ✓	05/18/2001	Japan			Abstract	
		2001-142074 ✓	05/25/2001	Japan			Abstract	
		2001-147437 ✓	05/29/2001	Japan			Abstract	
		2001-154211 ✓	06/08/2001	Japan			Abstract	

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<b>FOREIGN PATENT DOCUMENTS</b>
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		Document Number	Date	Country	Class	Sub Class	<u>Translation</u>	
							YES	NO
		2001-166272 ✓	06/22/2001	Japan			Abstract	
		2001-166310 ✓	06/22/2001	Japan			Abstract	
		2001-183683 ✓	07/06/2001	Japan			Abstract	
		2001-201750 ✓	07/27/2001	Japan			Abstract	
		2001-209052 ✓	08/03/2001	Japan			Abstract	
		2001-209060 ✓	08/03/2001	Japan			Abstract	
		2001-215459 ✓	08/10/2001	Japan			Abstract	
		2001-222017 ✓	08/17/2001	Japan			Abstract	
		2001-235758 ✓	08/31/2001	Japan			Abstract	
		2001-255542 ✓	09/21/2001	Japan			Abstract	
		2001-264782 ✓	09/26/2001	Japan			Abstract	
		2001-272640 ✓	10/05/2001	Japan			Abstract	
		2001-281675 ✓	10/10/2001	Japan			Abstract	
		2001-281678 ✓	10/10/2001	Japan			Abstract	
		2001-282126 ✓	10/12/2001	Japan			Abstract	
		2001-305563 ✓	10/13/2001	Japan			Abstract	
		2001-330837 ✓	11/30/2001	Japan			Abstract	

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		Document Number	Date	Country	Class	Sub Class	<u>Translation</u> YES      NO	
		2001-330840 ✓	11/30/2001	Japan			Abstract	
		2001-356353 ✓	12/26/2001	Japan			Abstract	
		2001-356354 ✓	12/26/2001	Japan			Abstract	
		2002-14360 ✓	01/18/2002	Japan			Abstract	
		2002-23176 ✓	01/23/2002	Japan			Abstract	
		2002-49045 ✓	02/15/2002	Japan			Abstract	
		2002-82340 ✓	03/22/2002	Japan			Abstract	
		2002-90759 ✓	03/27/2002	Japan			Abstract	
		2002-90760 ✓	03/27/2002	Japan			Abstract	
		2002-107740 ✓	04/10/2002	Japan			Abstract	
		2002-122872 ✓	04/26/2002	Japan			Abstract	
		2002-122873 ✓	04/26/2002	Japan			Abstract	
		2002-139734 ✓	05/17/2002	Japan			Abstract	
		2002-202512 ✓	07/19/2002	Japan			Abstract	
		2002-202514 ✓	07/19/2002	Japan			Abstract	
		2002-214626 ✓	07/31/2002	Japan			Abstract	
		2000-0035302 ✓	06/26/2000	Korea			Abstract	
		1 003 066 ✓	05/24/2000	Europe				
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